

TECHSPEC[®] 20mm Dia. 515nm 45°, Yb:YAG Laser Line Mirror



Yb:YAG ZERODUR Laser Line Mirrors

Stock **#26-886** 14 In Stock

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1

+

£175⁰⁰

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SPECIFICATIONS

General

Type:

Laser Mirror

Physical & Mechanical Properties

Diameter (mm):

20.00 +0.00/-0.20	
90	Clear Aperture (%):
30	Parallelism (arcsec):
3.00 +/-0.2	Thickness (mm):
Optical Properties	
515	Design Wavelength DWL (nm):
509 - 520	Wavelength Range (nm):
ZERODUR®	Substrate:
45	Angle of Incidence (°):
99.8	Reflection at DWL (%):
Laser Mirror (515nm)	Coating:
Coating Specification: R _{abs} > 99.80% @ 515nm @ 45° AOI R _{avg} > 99.5% @ 509 - 520nm @ 45° AOI	
Dielectric	Coating Type:
λ/10	Surface Flatness (P-V):
20-10	Surface Quality:
Damage Threshold, By Design: 15 J/cm² @ 515nm, 20ns, 20Hz	
Regulatory Compliance	
View	Certificate of Conformance:

PRODUCT DETAILS

- ZERODUR® Substrates Provide Near Zero Thermal Expansion
- >99.8% Reflectivity at Yb:YAG Harmonic Frequencies
- High Laser Damage Threshold Specifications

Yb:YAG ZERODUR Laser Line Mirrors combine the extremely low coefficient of thermal expansion of ZERODUR® substrates with the highly reflective TECHSPEC® Yb:YAG mirror coating. Featuring a coefficient of thermal expansion (CTE) of ±0.10 x 10-6/°C these mirrors are great for applications where the optics will be exposed to fluctuating temperatures. The Yb:YAG coating offers a high laser damage threshold compatible with both pulsed and continuous wave lasers. Yb:YAG ZERODUR Laser Line Mirrors are designed with precision polished substrates with λ/10 flatness and 20-10 surface quality. These mirrors are ideal for laser applications that include laser ablation, welding, drilling, cutting, and sintering.